

1/11

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1 GCCACCGACA TCCGCCGCAA TGCTGTGTCT CACCTCCTCT TCCTCCTCCG CGCCCGCTCC
61 GCTCCTTCCC TCTCTCGCTG ATCGACCGAG CCCGGGAATC GCGGGCGGGG GTGGCAATGT
121 TCGCCTGAGC GTGGTTTCTT CGCCGCGCCG GTCGTGGCCT GGAAAGGTCA AGACCAATTT
181 CTCAGTTCCT GCGACTGCGC GAAAAAACAA AACCATGGTG ACTGTTGTGG AGGAGGTCTGA
241 CCACCTTCCT ATATATGATC TGGACCCTAA GTTGGAGGAA TTCAAGGATC ACTTCAACTA
301 TAGGATAAAA AGATACCTCG ACCAGAAATG CCTGATTGAA AAACATGAGG GGGGCCTTGA
361 AGAATTTTCT AAAGGCTATT TGAAGTTTGG GATTAATACA GTTGATGGTG CCACAATATA
421 TCGTGAATGG GCGCCTGCTG CACAAGAAGC ACAGCTCATT GGTGAGTTCA ATAAGTGGAA
481 TGGTGCAAAA CACAAGATGG AGAAGGATAA ATTTGGCATT TGGTCAATCA AGATTTTACA
541 TGTCAATGGG AAGCCTGCCA TCCCTCACAA TTCCAAGGTT AAATTTTCGT TTAGGCATGG
601 GGGTGGAGCA TGGGTGATC GTATTCCCGC ATGGATTCTG TATGCAACTT TTGATGCCTC
661 TAAATTTGGA GCTCCATATG ATGGTGTACA CTGGGATCCT CCAGCCTGTG AAAGGTACGT
721 GTTTAAGCAT CCTCGACCTC CAAAACCTGA TGCTCCACGC ATCTATGAGG CTCATGTGGG
781 GATGAGTGGT GAAGAGCCAG AAGTAAGCAC ATACAGAGAA TTTGCAGACA ATGTGTTACC
841 ACGCATACGG GCAAATAACT ACAACACAGT TCAGTTAATG GCAATCATGG AACATTCCTA
901 CTATGCTTCT TTTGGGTATC ACGTGACAAA TTTTTCGCA GTCAGCAGCA GATCAGGAAC
961 ACCAGAGGAT CTGAAATATC TTGTTGACAA GGCACATAGT TTAGGATTAC GAGTTCCTGAT
1021 GGATGTTGTC CATAGCCATG CGAGTAATAA TGTGACCGAT GGTCTAAATG GCTATGACGT
1081 TGGACAAAAC ACTCATGAGT CTTATTTTCA TACAGGAGAT AGGGGCTACC ATAAACTCTG
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1261 GCTATACCAT CACCATGGTA TCAATAAGGG ATTTACTGGA AACTACAAGG AGTATTTTAC
1321 TTTGGATACC GATGTGGATG CAATTGTTTA CATGATGCTC GCAAACCATT TAATGCATAA
1381 ACTCTTGCCG GAAGCAACTA TTGTTGCTGA AGATGTTTCG GGCATGCCAG TGCTTTGTCTG
1441 GCCAGTTGAT GAAGGTGGAG TAGGGTTTGA CTTCCGCCTG GCAATGGCCA TTCCTGATAG
1501 ATGGATTGAC TACCTGAAGA ACAAGAGGA CCGCAAATGG TCAATGAGTG AAATAGTGCA
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1681 CATGTCAGAC TTGCAGCCTG CTTACCTAC CATCAACCGT GGCATTGCAC TCCAAAAGAT
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1981 GATTGTTAGC GACATGAACG AGAAAGATAA GGTTATTGTC TTTGAACGTG GAGATTTGGT
2041 TTTTGTTTTC AATTTTCATC CCAACAAAAC TTACAAGGGT TACAAAGTCG GATGTGACTT
2101 GCCCGGGAAG TACAGAGTAG CTCTGGACTC TGATGCTTTG GTCTTTGGTG GCCATGGAAG
2161 AGTTGGCCAT GATGTGGATC ACTTCACGTC TCCCGAGGGA ATGCCAGGAG TACCAGAAAC
2221 AAATTTCAAC AACCGCCCTA ACTCATTCOA AGTCCTTTCC CCGCCCCGTA CCTGTGTGGC
2281 TTACTATCGC GTTGATGAAG ATCGTGAAGA GCTCAGGAGG GGTGGAGCAG TTGCTTCTGG
2341 AAAGATTGTT ACAGAGTATA TCGATGTTGA AGCAACAAGT GGGGAGACTA TCTCTGGTGG
2401 CTGGAAGGGC TCCGAGAAGG ACGATTGTGG CAAGAAAGGG ATGAAGTTTG TGTTCGGTC
2461 TTCTGACGAA GACTGCAAAAT GAAGCATCAG ATTTCTTGAT CAGGAGCAAC TGTGTTGCC
2521 CTTGTAATCT GGAGATCCTG GCTTGCCTTG GACTTGGTTG TGGTTCTTTA GCAGTTGCTA
2581 TGTACCTATC TATGATATGA ACTTTATGTA TAGTTCGCCT TAAAGAAAGA ATAAGCAGTG
2641 ATGATGTGGC CTAAACCTG AGCTGCACAA GCCTAATGTA AAAATAAAGT TTCAGGCTTT
2701 CATCCAGAAT AAAACAGCTG TTCATTTACC ATCTCAAAA
```

Figure 1

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1 CTTGACTCCC CCCACTCCTC CCTCGTGCTG CTCCTCCTCG TCGCTCGGCT CGAGGCGCGG
61 CATTTGCGGC GGGAGGGATC TGC GCGCGAG TCGTGCGGG CAGGCGGCGG GGGAGCACGC
121 ACCGGGGGAT GCGGTCGTTC GCGGTGTCCG GCGCGAGGCT CGGGGTCTGT CGGGCGGGGG
181 GCGGCGGCGG CCGCGGGGGT GGCCCGGCGG CCGGATCCGG CGGGGTGGAC TTGCCGTCGG
241 TGCTCTTCAG GAGGAAGGAC TCCTTCTCAC GTGGCGTTGT GAGCTGCGCG GGTGCTCCTG
301 GGAAGGTGCT GGTGCCTGGC GGTGGGAGCG ACGACTTGCT GTCTCTGCG GAACCAGACG
361 TGGAAACTCA AGAGCAACCT GAAGAATCTC AGATACCTGA TGATAATAAA GTAAAACCTT
421 TTGAGGAGGA GGAAGAGATT CCAGCAGTGG CAGAAGCAAG CATAAAGGTT GTGGCTGAAG
481 ACAAACTTGA ATCTTCAGAA GTGATTCAAG ACATTGAGGA AAATGTGACT GAGGGTGTGA
541 TCAAAGATGC TGATGAACCA ACTGTGGAGG ATAAACCACG AGTTATCCCA CCACCAGGAG
601 ATGGGCAGAA GATATACCAA ATTGACCCAA TGCTGGAAGG ATTTCCGAAC CATCTTGACT
661 ACCGATACAG TGAATACAAG AGAATGCGTG CAGCTATTGA CCAACATGAA GGTGGCTTGG
721 ATGCATTTTC TCGTGGTTAC GAAAAGCTTG GATTCACCCG CAGCGCTGAA GGCATTACCT
781 ACCGAGAATG GGCACCTGGA GCACAGTCTG CAGCATTAGT AGGTGACTTC AACAAATTGA
841 ACCCAAATGC AGATACTATG ACCAGAAATG AGTATGGTGT TTGGGAGATT TCCCTGCCTA
901 ACAATGCTGA TGGATCCCTT GCTATTCCTC ATGGCTCACG TGTAAGATT CGGATGGATA
961 CACCATCTGG CGTAAAGGAT TCAATTCCTG CCTGGATTAA GTTTGCTGTG CAGGCTCCAG
1021 GTGAAATACC GTACAACGGT ATATATTATG ATCCACCTGA AGAAGAAAAA TATGTATTCC
1081 AACATCCTCA ACCTAAACGA CCAAATTCGC TCGGATATA TGAATCACAT ATTGGAATGA
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1321 AAGACTTGAA ATCTCTGATT GATAAAGCTC ACGAGCTTGG TTTGCTTGTA CTTATGGATA
1381 TTGTTCACAG TCATGCATCA AACAAATACC TGGATGGTTT GAATGGTTT GATGGTACTG
1441 ATACACATTA CTTCCATGGT GGACCACGGG GTCATCACTG GATGTGGGAT TCTCGCCTGT
1501 TCAACTATGG GAGTTGGGAA GTTTTAAGAT ATTTACTGTC GAATGCAAGG TGGTGGCTTG
1561 AAGAATACAA GTTTGATGGG TTTTCGATTTG ATGGGGTGAC CTCCATGATG TATACTCATC
1621 ATGGTTTACA GGTGGCATTT ACTGGCAACT ATGGCGAATA TTTTGGATTT GCTACTGATG
1681 TTGATGCAGT AGTTTACTTG ATGCTGGTGA ACGATCTAAT TCATGGGCTT TATCCTGAGG
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2041 CTTCAACACC TCGCATTTGAT CGTGGGATAG CATTACATAA AATGATTAGG CTTGTCACCA
2101 TGGGCTTAGG AGGCGAAGGC TATCTTAATT TCATGGGAAA TGAGTTTGGG CATCCTGAAT
2161 GGATAGATTT CCCAAGAGGC CCGCAAAGTC TTCCAAATGG CTCGGTCCTC CCAGGAAACA
2221 ACTACAGTTT TGATAAATGC CGTCGTAGAT TTGACCTTGG AGATGCAGAT TATCTTAGAT
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2521 TTGGTGGATT CAGTCGGCTT GATCATGATG CTGAGTACTT CACTGCTGAC TGGCCGCATG
2581 ACAACAGACC ATGTTTCATTC TCGGTGTACA CCGCAAGCAG AACCGCCGTC GTGTATGCAC
2641 TTACAGAGGA CTAATGATCA GCTCTGATCA TTGGGGGAAC AACTCAAGGG AGTTGGTGGT
2701 AATGACGCCG GAATACAAC CAAGTGAAAG GTGAAAAGAA AGGCTGCCCT GACGATGTGA
2761 TTTGAGGGGC TTGTGTTTCA TCGCCAATGC CAGGAAGATG AGGTAGAAAA GCCTACTGAT
2821 GAGCTCCTGT TTTTCGAGTGA CTCGTGAAGG AAATAGACCA GGGTGAACGG CTTTTTTCAG
2881 AGCTATACCA AACCCATCCT ATGTTGCGCA TTCGCTGTAG TTTTGTACAT AACGATATCG
2941 GTTGGCATTT GTATGTTTAT GAATAATCTG TTCGACAGAA ATGTTTTTCT CCTTGATTT
3001 AGTGCTCAAA AAAAA

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Figure 2

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121 GGGCGAGATG GCGGCGCCGG CGTCTGCGGT TCCCGGGAGC GCGGCGGGGC TACGGGCGGG
181 GGCCGTGCGG TTCCCCGTGC CAGCCGGGGC CCGGAGCTGG CGTGCGGCGG CGGAGCTCCC
241 GACGTCGCGG TCGCTGCTCT CCGGCCGGAG ATTCCCCGGT GCCGTTTCGG TGGGGGGTTC
301 CGGGGGGCGC GTGGCCGTGC GCGCGGCGGG CGCGTCAGGG GAGGTGATGA TCCCCGAGGG
361 CGAGAGCGAC GGGATGCCGG TTTACAGCAG TTCAGACGAT CTGCAGTTGC CAGCCTTAGA
421 TGATGAATTA AGCACGGAGG TTGGAGCTGA AGTTGAGATT GAGTCATCTG GAGCAAGTGA
481 CGTTGAAGGC GTGAAGAGAG TGGTTGAAGA ATTAGCTGCT GAGCAGAAAC CACGAGTTGT
541 CCCACCAACA GGAGATGGGC AAAAAATATT CCAGATGGAC TCTATGCTTA ATGGCTATAA
601 GTACCATCTT GAATATCGAT ATAGCCTATA TAGGAGACTG CGTTCAGACA TTGATCAGTA
661 TGAAGGAGGA CTGGAACAT TTTCTCGCGG TTATGAGAAG TTTGGATTTA ATCACAGTGC
721 TGAAGGTGTC ACTTATCGAG AATGGGCTCC CGGGGCACAT TCTGCAGCAT TAGTAGGTGA
781 CTTCAACAAT TGAATCCAA ATGCAGACCG CATGAGCAAA AATGAGTTTG GTGTTTGGGA
841 GATTTTCTTG CCTAACAATG CTGATGGCTC ATCTCCTATT CCACATGGCT CACGTGTAAA
901 GGTGCGAATG GAAACTCCAT CTGGTATAAA GGATTCTATT CCTGCCTGGA TCAAGTACTC
961 TGTGCAGGCC GCAGGAGAAA TCCCATACAA TGGAATATAT TATGATCCTC CTGAAGAGGA
1021 GAAGTACATA TTCAAGCATC CTCAACCTAA AAGACCAAAG TCATTGCGGA TATACGAAAC
1081 TCATGTTGGA ATGAGTAGCA CGGAGCCAAA GATCAACACG TATGCAAAC TTAGGGATGA
1141 GGTGCTTCCA AGAATCAAAA AGCTTGGATA CAATGCAGTG CAAATAATGG CAATTCAAGA
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1261 TTTTCGGGACC CCAGAAGATT TAAAGTCATT GATTGATAAA GCTCATGAGC TTGGTTTAGT
1321 TGTGCTCATG GATGTTGTTT ACAGCCATGC GTCAAATAAT ACCCTAGATG GGTGTAACGG
1381 TTTTGATGGT ACAGATACGC ATTACTTTCA TAGTGGTTCA CGCGGCCATC ATTGGATGTG
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1621 ATTTGCCACT GATGCTGATG CAGTAGTTTA CTTGATGCTG GTAAATGATT TAATTCATGG
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1981 GGCTCTGGAC AGACCGGCAA CACCTAGCAT TGATCGTGGA ATAGCATTGC ATAAATGAT
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2761 TTGTAGTTTT AGTTTGTGAG GGAAAGAAAC GTTTATTGT AATTATCTAT GGCTGTCGAA
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Figure 3

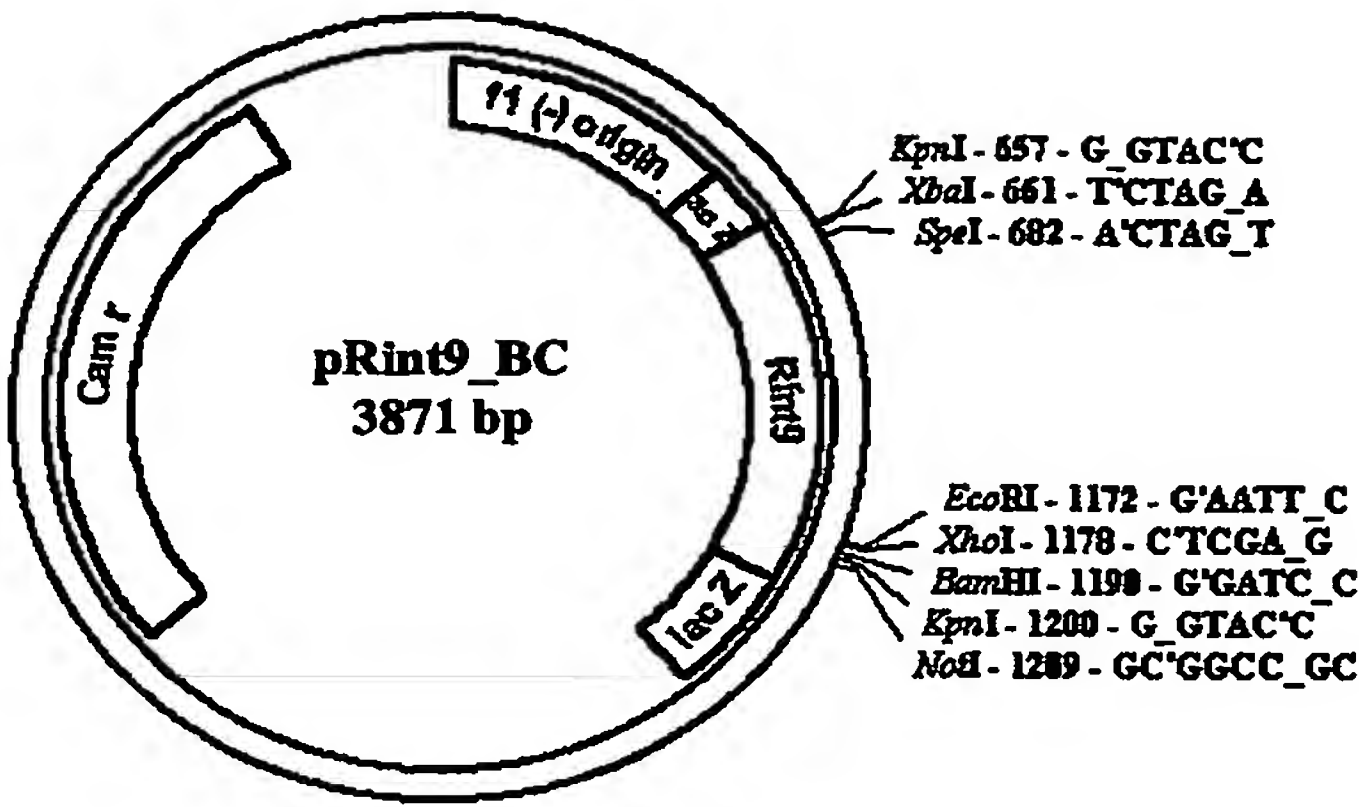


Figure 4

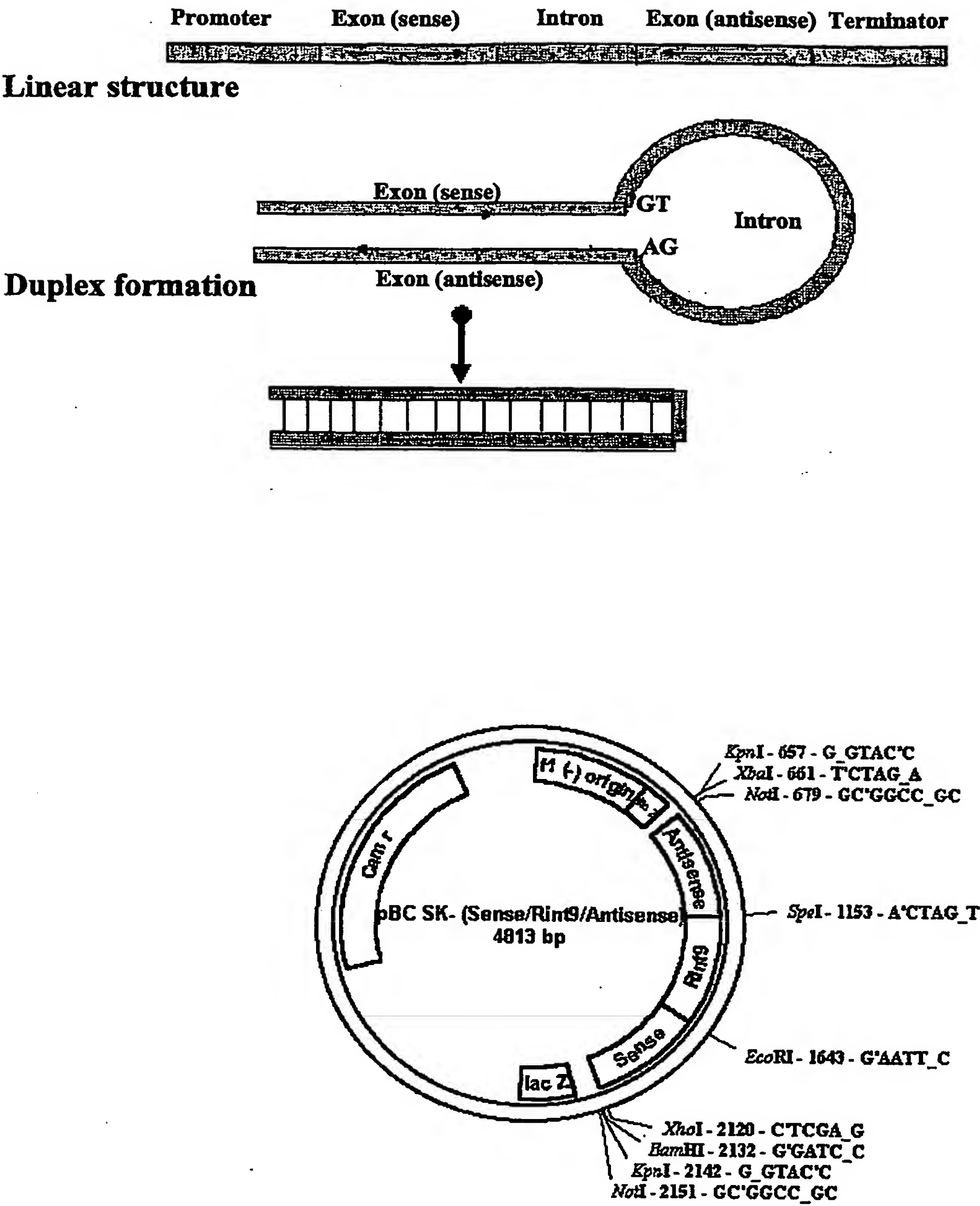
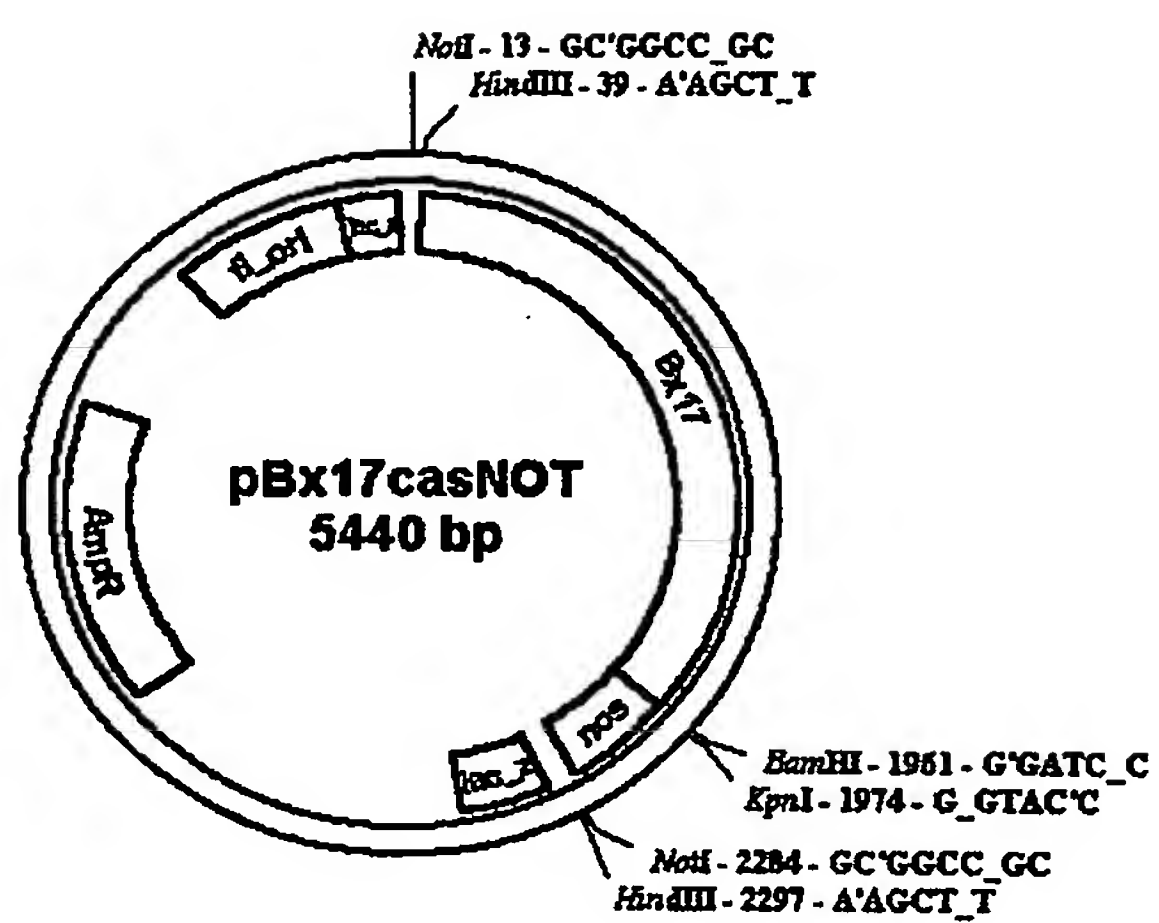


Figure 5

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**Figure 6**

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55 gcgcggcatttgcggcggga.gggatctgcgcgcgagtgcggtgcgggcag 103
131 GCGGC.....GCCGGCGTCTGCGGTTCCCGGGA 158
||||| | ||| ||| ||| ||| ||| |||
104 gcggcgggggagcacgcaccgggggatggcgctcggtcgcggtgtcc.ggc 152
159 GCGCGGGCGGGCTACGGGCGGGGGCCGTGCGGTTCCCCGTGCCAGCCGGG 208
||| ||| || | ||| ||| | ||| | ||| | ||| |
153 gcgaggctcggggtcgtgcgggcggggggcg...cggcggcggcggg 198
209 GCCCGGAGCTGGCGTGCGGCGGCGGAGCTCCCGACGTCGCGGTCGCTGCT 258
| | ||| | ||| ||| | | ||| ||| ||| |||
199 gtggcccggcggcgcgatccggcgggg...tggacttgccgtcggtgct 244
259 CTCCGGCCGGAGATTCCCCGGTGCCGTTGCGGTGGGGGGTTCCGGGGGGC 308
|| | ||| || | ||| | ||| ||| ||| |||
245 cttcaggagga.....aggactccttctcacgtggcggt..... 278
309 GCGTGGCCGTGCGCGCGGGCGGCGGTCAGGGGAGGTGATGATCCCCGAG 358
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399ATCTGCAGTTGCC.....AGCCT 416
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371 agagcaacctgaagaatct.cagatacctgatgataataaagtaaacct 419
417 T.....AGATGATGAATTAAGCACGGAGGT 441
| | ||| ||| ||| ||| ||| ||| ||| |||
420 ttgaggaggaggaagagattccagcagtggcagaagcaagcataaaggt 469
442 TGGAGCTGAAGTTGAGATTGAGTCATC.....TGGAG 473
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470 tgtggctgaagacaaacttgaatcttcagaagtgattcaagacattgagg 519
474 CAAGTGACGTTGAAGGCGTGAAGAGAGTGGTTGAAGAATTAGCTGCTGAG 523
|| || | ||| ||| ||| || | ||| ||| ||| ||| |||
520 aaaatgtgactgagggtgtgatcaaagatgctgatgaaccaactgtggag 569
524 CAGAAACCACGAGTTGTCCCAACAGGAGATGGGCAAAAATATTTCCA 573
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574 GATGGACTCTATGCTTAATGGCTATAAGTACCATCTTGAATATCGATATA 623
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620 aattgaccaatgctggaaggatttcggaaccatcttgactaccgataca 669
624 GCCTATATAGGAGACTGCGTTCAGACATTGATCAGTATGAAGGAGGACTG 673
| ||| | ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Figure 7

Figure 7

Figure 7

[illegible]

Figure 7

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riceSBEIIaIR.seq

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56     GTTGGACTC  AGACGATGGC CTCTTTGGT G GATTCAGT CG GCTTGAT CATGA
111    TGCTGAGT A CTTCAGTGC TGA CTGCTGGCCG CATGACAAC A GACCATGT TCATT
166    CTCGGTG TA CACCCCAA G CAGAACCGC CGTCGTGTAT GCACTTACA GAGGA
221    CTAATG ATC AGCTCTG AT CATTGGGG G AACAACTCA AGGGAGTTGG TGGTA
276    ATGAC GCCG GAATAC AAC TCAAGTG AA AGGTGAAA A GAAAGGCTGC CCTGA
331    CGAT GTGAT TTGAG GGGC TTGTGT TTC ATCGCCA AT GCCAGGAAGA TGAGG
386    TAG AAAAGC CTAC TGATG AGCTC CTGT TTTCGA GTG ACTCGTGAAG GAAAT
441    AG ACCAGGG TGA ACGGCT TTTT TCAGA GCTAT ACCA AACCCATCCT ATGTT
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606    TTC
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riceSBEIIbIR.seq

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166    NNNNNNN NN NNNNNNNNN N NNNNNNNNN NNNNNNNNN CTCCAGCGG AATGA
221    GAACAC CAA GAGGCAG CA TGCAAGTG T GTGCGGCTG CTAGTGCGAA GGAGC
276    AAGAA AAAC TAGTTG CCA GCAATCT GT GAACGGCT T TCCTAGGTTG TGCTT
331    CGAT GAATG CCGGA TAGA CTAGAC ANN NNNNNNN NN NNNNNNNNN NNNNN
386    NNT TGTAGT TTTA GTTTG TGAGG GAAA GAAACG TTT ATTTGTAATT ATCTG
441    TG GCTGTCG AAC GGCGAC GAAA CCATG AACCC CGTA TATTTGTTGG TACCG
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riceSBEIIR.seq

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Figure 8